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APPLICATION N	0.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/603,116		06/24/2003	Henry A. Hill	09712-251003 / Z-462	2204	
26161	7590	06/29/2004		EXAM	EXAMINER	
	RICHARD NKLIN ST	SON PC	ALLEN, STI	ALLEN, STEPHONE B		
	, MA 021	10		ART UNIT	PAPER NUMBER	
				2878	2878	
				DATE MAILED: 06/29/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Educations of time may be available under the provision of 37 CPR 1.136(a). In no event, however, may a reply be limely filled after 6X (6) MONTHS from the mailing date of this communication.  **IND pand for reply is specified above, the maximum statutory priorid within the statutory within the statutory within the statutory distribution to this CQQ days will be considered timely.  **IND pand for reply is specified above, the maximum statutory priorid value pays and will explicate 10% (8) 0.13 C. § 133).  **Part of the statutory of the statutory within the statu		Application No.	Applicant(s)						
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2a)  This action is FINAL. 2b)  This action is non-final.  3  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)  Claim(s) 19-35 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5)  Claim(s) 19-25 is/are allowed. 6)  Claim(s) 26-35 is/are rejected. 7)  Claim(s) is/are objected to. 8)  Claim(s) are subject to restriction and/or election requirement.  Application Papers  9)  The specification is objected to by the Examiner. 10)  The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c) None of:	Status								
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#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 26-30 and 33-35 are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent No. 5,363,196 to Cameron.

Cameron discloses an interferometry device that directs a beam to reflect from a mirror (coupled to a movable stage) at each of a plurality of datum line on the mirror; measures reflection of the beam for each position; determines orientation of the mirror relative to a light source (coupled to a movable stage) for each position; and calculates a topography of the mirror along the datum line based on the reflected beam. (col.3, line 40-68; and col. 3, line 62 – col. 7, line 61).

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 31 and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cameron.

Cameron is silent as to the interferometer being that of a single-beam interferometer. However, the exact interferometer used would have been a matter of obvious design modification for one of ordinary skill in the art, since they are considered functionally equivalent.

#### Allowable Subject Matter

Claims 19-25 are allowable over the prior art.

The following is an examiner's statement of reasons for allowance:

The prior art fails to disclose, either singly or in combination an apparatus comprising an interferometry system configured to direct at least one beam, having a diameter d to contact a mirror and measure a relative position of the mirror as it move with respect to the interferometer; the systems stores information about the topography of the mirror, wherein the topography information has a spatial resolution on the order of the beam diameter.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephone B. Allen whose telephone number is (571) 272-2434. The examiner can normally be reached on Mon-Thurs from 0900-1700.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave P. Porta can be reached on (571) 272-2444. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Stephone B. Allen Primary Examiner Art Unit 2878

sba